



Lenovo ThinkPad T510 Intel® Core™ i5 i5-520M 39.6 cm (15.6") 2 GB DDR3-SDRAM 160 GB HDD Windows 7 Professional Black

Brand : Lenovo

Product family: ThinkPad

Product code: NTH4XU1

Product name : T510



Intel Core i5-520M (2.40 GHz), 2GB DDR3 RAM, 160GB SATA HDD, 15.6" TFT (1366x768), Intel HD Graphics, Gigabit Ethernet, WLAN 802.11 b/g/n, Bluetooth, DVD-RW, Windows 7 Professional 32-bit
Lenovo ThinkPad T510. Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor: i5-520M, Processor frequency: 2.4 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 2 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 160 GB, Storage media: HDD, Optical drive: DVD-RW. On-board graphics card model: Intel® HD Graphics. Operating system installed: Windows 7 Professional. Product colour: Black. Weight: 2.67 kg

Design		Ports & interfaces	
Product colour *	Black	Microphone in	✓
Form factor *	Clamshell	ExpressCard slot	✓
Display		CardBus PCMCIA slot type	✗
Display diagonal *	39.6 cm (15.6")	TV-out	✗
Display resolution *	1366 x 768 pixels	Performance	
LED backlight	✓	Chipset	Intel® QM57 Express
Native aspect ratio	16:9	Keyboard	
Display brightness	220 cd/m²	Pointing device	ThinkPad UltraNav
Processor		Numeric keypad *	✗
Processor manufacturer *	Intel	Windows keys	✓
Processor family *	Intel® Core™ i5	Software	
Processor generation	Intel® Core™ i5	Operating system architecture	32-bit
Processor *	i5-520M	Operating system installed *	Windows 7 Professional
Processor number of cores	2	Processor special features	
Processor threads	4	Intel Wireless Display (WiDi) Technology	✗
Processor boost frequency	2.93 GHz	Intel My WiFi Technology	✗
Processor frequency *	2.4 GHz	Intel Anti-Theft Technology	✗
System bus data transfer rate	2.5 GT/s	Intel Hyper-Threading Technology	✓
Processor cache	3 MB	Intel Turbo Boost Technology	1.0
Processor cache type	Smart Cache	Enhanced Intel SpeedStep Technology	✓
Processor socket	BGA 956	Intel Clear Video HD Technology	✓
Processor lithography	32 nm	Intel Clear Video Technology	✓
Processor operating modes	64-bit	Intel® InTru™ 3D Technology	✗
Processor series	Intel Core i5-500 Mobile Series	Intel® Insider™	✗
Processor codename	Arrandale	Intel® Quick Sync Video Technology	✗
Bus type	DMI	Intel Flex Memory Access	✓
FSB Parity	✗	Intel AES New Instructions	✓
Stepping	C2	Intel Trusted Execution Technology	✓
Thermal Design Power (TDP)	35 W	Intel Enhanced Halt State	✓
Tjunction	105 °C	Intel VT-x with Extended Page Tables (EPT)	✓
Maximum number of PCI Express lanes	16	Intel Demand Based Switching	✗
PCI Express slots version	2.0		
PCI Express configurations	1x16		
Number of Processing Die Transistors	382 M		
Processing die size	81 mm²		

Processor		Processor special features	
CPU multiplier (bus/core ratio)	18	Intel Clear Video Technology for MID	✓
ECC supported by processor	✗	Intel 64	✓
Memory		Execute Disable Bit	✓
Internal memory *	2 GB	Idle States	✓
Internal memory type	DDR3-SDRAM	Thermal Monitoring Technologies	✓
Memory clock speed	1066 MHz	Processor package size	rPGA 37.5x 37.5, BGA 34x28
Memory layout (slots x size)	1 x 2 GB	Supported instruction sets	SSE4.1/4.2
Memory slots	2x SO-DIMM	Physical Address Extension (PAE)	36 bit
Memory slots (available)	1	CPU configuration (max)	1
Memory, maximum *	8 GB	Embedded options available	✓
Storage		Graphics & IMC lithography	45 nm
Total storage capacity *	160 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Storage media *	HDD	Intel Virtualization Technology (VT-x)	✓
Number of HDDs installed	1	Intel Dual Display Capable Technology	✓
Hard drive capacity	160 GB	Intel FDI Technology	✓
Hard drive interface	SATA	Intel Rapid Storage Technology	✗
Hard drive rotational speed	7200 RPM	Intel Fast Memory Access	✓
Optical drive *	DVD-RW	Processor ARK ID	47341
Card reader integrated	✓	Conflict-Free processor	✗
Compatible memory cards	Memory Stick (MS), MMC, MS PRO, SD, SDHC	Battery	
Graphics		Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card *	✓	Number of battery cells	6
On-board graphics card family	Intel® HD Graphics	Battery life (max)	6.2 h
On-board graphics card model *	Intel® HD Graphics	Power	
On-board graphics card base frequency	500 MHz	AC adapter power	65 W
On-board graphics card dynamic frequency (max)	766 MHz	DC-in jack	✓
Maximum resolution	1366 x 768 pixels	Security	
Audio		Cable lock slot	✓
Audio system	HD	Cable lock slot type	Kensington
Number of built-in speakers	2	Password protection type	HDD, Power on, Supervisor
Speaker power	1 W	Sustainability	
Built-in microphone	✓	Sustainability certificates	EPEAT Gold, ENERGY STAR
Network		Weight & dimensions	
Wi-Fi	✓	Width	372.8 mm
Network interface	Gigabit Ethernet	Depth	245.1 mm
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Height (front)	3.2 cm
Ethernet LAN connection	✓	Height (rear)	3.58 cm
Ethernet LAN data rates	10,100,1000 Mbit/s	Weight *	2.67 kg
Bluetooth	✓	Packaging content	
Bluetooth version	2.1+EDR	AC adapter included *	✓
WWAN	Installed	Other features	
Ports & interfaces		Wireless	Wi-Fi
USB 2.0 ports quantity *	3	Infrared data port	✗
eSATA/USB 2.0 ports quantity	1	Graphics card family	Intel
Ethernet LAN (RJ-45) ports	1	Type	PC
DisplayPorts quantity	1	Display	TFT
DVI port	✗	Compliance industry standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
VGA (D-Sub) ports quantity	1	Intel segment tagging	Home office, Small Business
Firewire (IEEE 1394) ports	1		
Headphone outputs	1		
S/PDIF out port	✗		

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